

**WHAT IS CLAIMED IS:**

1. A digital camera, comprising:

a picture taking means for taking a subject and outputting original image data by a raster scan scheme;

5 a main memory;

an original writing means for writing said original image data to said main memory;

a creating means for creating a thumbnail image data based on said original image data;

10 a buffer;

a first thumbnail writing means for writing to said buffer thumbnail image data outputted from said creating means; and

15 a second thumbnail writing means for writing to said main memory thumbnail image data stored in said buffer each time a first predetermined lines of original image data is written to said main memory.

2. A digital camera according to claim 1, wherein

a second predetermines lines of thumbnail image data is associated with said first predetermined lines of original image data, and

20 said buffer including a thumbnail area to store said second predetermined lines of thumbnail image data.

3. A digital camera according to claim 1, further comprising a horizontal counter to count a horizontal number of pixels of said original image data and output a horizontal count value, and

25 a vertical counter to count a vertical number of lines of said original image data and output a vertical count value.

4. A digital camera according to claim 3, wherein

said creating means includes an extracting means to extract predetermined pixel data from said original image data based on said horizontal count value and said vertical count value.

5 5. A digital camera according to claim 4, wherein

said extracting means includes a plurality of registers to shift said original image data by a predetermined number of pixels a time and an enabling means to intermittently enable said registers based on said horizontal count value and said vertical count value.

6. A digital camera according to claim 3, wherein

10 said first thumbnail writing means includes a data writing means to write said thumbnail image data to said buffer based on said horizontal count value and said vertical count value.

7. A digital camera according to claim 3, wherein

15 said first thumbnail writing means includes a request output means to output a request to read out said thumbnail image data when said vertical counter counts up the number of lines corresponding to said first predetermined lines and said horizontal counter counts up the horizontal number of pixels on said original image data.

8. A digital camera according to claim 7, wherein

20 said second thumbnail writing means includes a thumbnail reading means to read said thumbnail image data out of said buffer in response to said read request.

9. A digital camera according to claim 1, wherein

25 said original writing means includes a first original writing means to write said original image data by a predetermined number of pixels a time, and a second original writing means to write original image data stored in said buffer to said main memory by said predetermined number of pixels a time.

10. A digital camera according to claim 9, wherein  
said buffer includes an original area to store at least said predetermined number of  
pixels of original image data.

5 11. A digital camera according to claim 1, wherein  
said main memory is an SDRAM.

12. A digital camera according to claim 1, further comprising a recording means to  
record original image data and thumbnail image data stored in said main memory to a  
recording medium.

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ADD B1 >